

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: August 10, 2005

Inspector: Don Ukers and Brian Sakidovitch

Location: 115 kV Underground Route

Storm/

Rain Event: Only a trace of precipitation has been recorded over the last two inspections as posted by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction Bethel Educational Park, Bethel	- Trenching and ductwork/ installation continues in the Bethel Educational Park in the existing ROW south of Bethel Middle. This portion of the trench is one of the last to complete 8/10/05 - A large amount of bare soil remains exposed along the ROW. 8/10/05	- Erosion controls in this area require some attention. See the erosion control and vegetation sections for more specific information.8/10/05
Hoyts Hill Transition Structure	- The foundation for the transition structure has been installed and the access road remains in use. 8/4-8/10/05	- See erosion control section for site specific information. 8/10/05
Gallows Hill Road and Rt. 107, Redding	- Ductwork/installation continues near #116 Gallows Hill Road as well as near #19 past Longwood Drive. 8/10/05	- Activities seem contained on the roadway for the most part but see erosion control section for more specific information.8/10/05

Areas of Inspection	Observation	Recommended Action
Rt. 58, Bethel	<ul style="list-style-type: none"> - Trench/conduit installation was occurring along Rt. 58 in several locations including near #87, near the Steck nursery, and near the northern entrance to Putnam Park. 8/10/05 - A handhole was installed in the vicinity of Sunset Hill Road and a small amount of bank cut and clearing had been necessary. 8/4-8/10/05 	<ul style="list-style-type: none"> - Activities are fairly well contained to the roadway but several issues need attention. See the erosion control, storage and additional sections for more information. 8/10/05
Broad Street/ROW and Rt. 7, Norwalk	<ul style="list-style-type: none"> -Active work was occurring in Broad St and some small stockpiles were present. 8/10/05 -Work near the Norwalk substation in the ROW is occurring, including a caisson drilling and some erosion control barrier issues were noted. 8/10/05 	<ul style="list-style-type: none"> -Activities were fairly well contained but see the erosion control section for more information. It is uncertain whether the ROW work is the responsibility of the substation expansion or the 115kV 8/10/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - For the most part, silt fence has been well installed in most locations where the work is located adjacent to wetlands and soils are being handled appropriately. However, general and specific issues were noted and require attention. 8/10/05 - Some repairs from previous weeks continue to be made as recommended but some areas still require attention. 8/10/05 	<ul style="list-style-type: none"> - Several areas require maintenance or additional controls or attention as soon as possible. - Continue to be proactive in maintenance as necessary. See below for site-specific issues. 8/10/05

Areas of Inspection	Observation	Recommended Action
Bethel Educational Park	<ul style="list-style-type: none"> - The silt fence along the ROW and structure foundation near the RT Johnson School could now use some attention. A soil stockpile remains here. 8/10/05 - The southern portion of the ROW past Bethel Middle School also requires repair to the silt fence in several locations. Adjacent work has worn the fence and ripped it off the stakes. 8/10/05 - Active trenching along the ROW here prevented inspection of the southern transition structure area. It needs to be confirmed whether the sediment had been pulled back from the low spot within the shrub area or whether the fence near the riprap pile and steep grade was functioning well. 8/10/05 	<ul style="list-style-type: none"> - Keep the controls in good repair until the ROW is revegetated. Also, avoid piling brush or cleared vegetation in any potential wetland areas. 8/10/05 - Repair and toe in the fence where needed as soon as possible and be proactive in maintenance. 8/10/05 - Confirm whether these areas are stable and make repairs where necessary. The riprap area may need reinforcement as high volumes of stormwater flow here. 8/10/05 - The bare soil of the ROW should be restored as soon as possible to prevent further sedimentation and in accordance with the D&M plan timelines. 8/10/05
	<ul style="list-style-type: none"> - Silt fence still requires repair/toeing-in at several locations along the access road to prevent the bare soil from migrating through existing gaps. 8/4-8/10/05 - The silt fence near the structure foundation is washed out or overtopped here in one spot. 8/4-8/10/05 	<ul style="list-style-type: none"> - Maintain silt fence where necessary both along the access road and near the structure foundation. 8/10/05 -In general, avoid placing any brush and chips from areas beyond the silt fence per the D&M plan. 8/10/05

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Route 58	<ul style="list-style-type: none"> - Efforts have been made to protect some catch basins in areas of active work. 8/4-8/10/05 - Protect all catch basins and inlets which may be recipients of mobile sediment. A “frame” of haybales (or filter fabric) should be used. 8/4-8/10/05 - The Mathers storage area off Rt. 58 near Putnam Park has been placed with silt fence as recommended. Some is in good repair but the area closest to the pond is encroaching on the wetland vegetation. The fence should be pulled back and toed in. 8/10/05 - The fence near handhole #4 should be repaired by towing in upgradient. 8/10/05 - The adjacent section of silt fence here looked to be in better repair but it was not confirmed whether the additional section of silt fence was extended 8/10/05 	<ul style="list-style-type: none"> -In all work areas, contain slurry or mobile sediment to work areas and street sweep the road extent including the gutters, regularly. 8/10/05 - Silt fence should be installed as a limit of work to protect the wetlands but not placed beyond the wetland boundary. Materials should not be placed beyond the silt fence. 8/10/05 - The fence should be repaired correctly as bare soil remains here. 8/10/05 - Continue to maintain fence when necessary and it should be extended to encompass all wetlands if not already done so. 8/10/05
Gallows Hill Road and Rt. 107 (Lonetown Rd)	<ul style="list-style-type: none"> - Active work continues near #116 Gallows Hill and the pull-off with loose stone and sediment remains. 8/4-8/10/05 Some fence was knocked over here by a truck and it was going to be repaired. 8/10/05 - Fence near #84 was repaired as recommended. 8/10/05 	<ul style="list-style-type: none"> -Provide erosion controls until the area is restored and clean up the pull off area when work is done. 8/10/05. - None at this time but continue to monitor. 8/10/05

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Gallows Hill Road and Rt. 107 (Lonetown Rd) continued	- The inlet near #53 Gallows Hill is protected with check dams on one side but the other side also has a swale which would require controls if work returns here. 8/10/05	- In general crews in this section should also remain aware of containing mobile slurry or sediment laden water and protecting catch basins and inlets. 8/10/05
	- Active work was near the Redding Country Club but silt fence has been repaired. 8/10/05	-Continue to maintain and repair fence where necessary when active work approaches an area. 8/10/05
Broad Street and Rt. 7, Norwalk	-Work near the substation on the ROW has resulted in some fence knocked over near the caisson drilling and a low spot in the grade needs to be toed in. Also, debris and brush should be cleaned up from the ROW, especially where it was placed beyond the fence. 8/10/05	- Repair the downed area and maintain and toe-in silt fence until the ROW stabilizes. 8/10/05
	- Broad Street work had several small associated piles of soil. If they are to be left on the shoulder beyond the end of the day, silt fence should be installed. 8/10/05	- Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. Use the silt fence as limits of work and do not place materials beyond. 8/10/05
	- Trenching, conduit installation and vault installation is ongoing along Rt. 7 during the night work. Adjacent areas are of commercial development with few wetland resources. 8/10/05	- Be sure that catch basins in the vicinity of sawcutting and slurry muds are well protected. 8/10/05
Contaminated Soils	- Contaminated soil is being stored and labeled separately from that considered “background polluted”. Contaminated soils are eventually brought off site to an O&G facility in Bridgeport. Water from contaminated soils are sent to frac trucks and tanks. - Occasionally, soils are being stored temporarily at Redding Yard until they are trucked to Bridgeport or the landfill.	- All soils appear to be handled appropriately. 8/10/05 - It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable RSR levels), as daily cover. 7/14-8/10/05
Adjacent Wetlands and	- Observable volumes of stormwater run downgrade along	- All silt fence controls here should be repaired and

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Waterways continued	<p>the Bethel Ed Park ROW. Wetlands are at the base of slope at the southern end and erosion controls should remain in good condition. 8/4-8/10/05</p> <p>-Additional controls continue to be installed at the Redding Yard in an effort to control the concrete washout area and are effectively in place to prevent additional impacts to wetlands. 8/4-8/10/05</p> <p>- Silt fence was installed as recommended at the storage area off Rt. 58 but portions near the pond are encroaching on the wetland vegetation. 8/10/05</p> <p>- Repairs are needed along the silt fence at the ROW due to the Norwalk River's proximity. 8/10/05</p>	<p>strengthened/reinforced as necessary. 8/10/05</p> <p>- See storage yard section for more information. 8/10/05</p> <p>- The silt fence here should be pulled back and toed in and set outside of the wetland boundary to provide a limit of work. 8/10/05</p> <p>- Repair the fence and in general, brush should not be piled in wetland areas in accordance with the D&M plan. 8/10/05</p>
Staging, Storage, and Parking Areas	<p>- In Redding Town Yard, soil excavate is only temporarily stored here until it can be trucked for disposal in the O&G facility in Bridgeport or the Redding landfill.</p> <p>- Additional measures continue to be installed to control concrete washouts at the Redding yard. Recently, silt fabric was placed under/around the berm to prevent washout water from escaping. 8/10/05</p> <p>- A storage area for materials, conduit and equipment is in use at the Bethel Educational Park near the RTJ School. 7/6-8/10/05</p> <p>- The Mathers storage area was identified off Rt. 58 had silt fence in place as recommended but a portion encroaches on wetland vegetation and was also not toed in. 8/10/05</p>	<p>- There are no current issues but if the piles progress beyond the bins, haybales should be placed down-gradient of the pile unless this is in the way of active equipment movement. 8/4/1005</p> <p>- The bin should continue to be emptied regularly to prevent overflow. The recent measures seem effective. 8/10/05</p> <p>- None at this time. Continue to monitor several stockpiles along the ROW. 8/4-8/10/05</p> <p>- Silt fence should be moved back from the wetland edge to provide an effective limit of work. 8/10/05</p>

Areas of Inspection	Observation	Recommended Action
State species of concern, threatened and endangered species	- No species of concern are located in the areas of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Although significant clearing on the edge of roadways has not been necessary, there are areas where bare soil remains, especially near vaults, handholes and the ROW. Many of these areas are sitting for several weeks without temporary seeding, mulch or stabilization. 7/21-8/10/05</p> <p>-The cleared ROW at Bethel Ed Park should be restored and seeded temporarily where work is complete. Revegetation would reduce sedimentation. 7/21-8/10/05.</p>	<p>- The D&M plan requires that disturbed areas to be left for more than 21-30 days before work returns here should be temporarily stabilized with mulch or seed within 7-14 days. 7/21-8/10/05</p> <p>- The restoration crews should be sent out more frequently to areas which will not be re-disturbed in these time frames 7/21-8/10/05.</p> <p>- This is especially important where high stormwater volume is leaving the ROW near the southern end. 8/10/05</p>
Dewatering	<p>- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21-8/10/05</p> <p>- Some dewatering had been needed on Gallows Hill Road and a truck was observed waiting for his purpose. 8/10/05</p>	<p>- It appears that the storage and disposal solution will continue due to concerns about the background pollutants in soils, even in those not considered contaminated. 7/21-8/10/05</p> <p>It may be important to determine total daily volumes of water removal and evaluate whether this is a stress to the watershed or not a significant impact. 7/21-8/10/05</p>
Blasting	- No blasting is occurring in any areas at this time.	- None at this time.

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	<ul style="list-style-type: none"> - Designated concrete washout corrals are in use at the Hoyts Hill transition structure and the Bethel Ed. park. 8/10/05 - Leaks were not noted from the machinery during this inspection. A report of any leaks or spills that reach the ground and occur during the week will be provided to BSC from internal project inspectors 6/15-8/10/05 - Uncontained materials were not observed at the storage areas during the inspection. 8/10/05 - In general catch basins, inlets and swales should be protected especially in any area with sawcutting activities. Slurry muds are highly mobile and can reach inlets hundreds of feet away when conditions are right. 7/21-8/10/05 	<ul style="list-style-type: none"> - Continue to make sure concrete washouts are restricted to designated areas. 8/10/05 - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis and keep spill kits on hand. Report spills immediately, even if they are being controlled. - The contractors should remain vigilant about securing and handling fuel and material containers. - Equipment and materials should not be stored in wooded areas unless it is designated for storage. 8/10/05
Additional Observations		

Next likely scheduled inspection:

Thursday, August 18, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature: Diana Walden for Don Ukers



115 kV (Broad Street and ROW): Photo on the left shows work within Broad Street. Photo on the right shows the ROW near the substation where work has pushed over the silt fence 8/10/05



115 kV (Gallows Hill Road): General view of the trenching ongoing near #116. Keep erosion control in good repair and clean up pull off area when work is complete. 8/10/05



The inlet near #53 Gallows Hill Rd. will require silt fence or haybales on the other approach swale if active work returns to this area. Both sides drain to the inlet. 8/10/05



115 kV (Route 58 near Putnam Park): Silt fence was installed as recommended at the new storage area but it is encroaching on the wetland vegetation and is not toed in. 8/10/05



115 kV (Route 58 near Handhole 4): The silt fence repair made here was installed backwards. Stakes should be on the downgradient side of the fabric and the bottom toed in upgrade. 8/10/05



115kV (Route 58, near Hoyts Hill- Transition Pole): Silt fence along the dirt access road into the structure could use some repair and toeing in. 8/10/05



115kV (Bethel Education Park) View of the northern caisson location area. Some attention should be given to repair silt fence. (8/10/05)



View of one of the areas along the southern portion of the ROW that requires silt fence maintenance and repair. Fence should be in good condition until the area is revegetated. 8/10/05



View of the active trenching along the ROW leading to the southern transition structure caisson. This is one of the last sections at the school to construct. 8/10/05



115kV (Redding Town Yard): Additional attempts to control the concrete washout area include placing filter fabric under and around the berm. This seems to have been effective. 8/10/05